



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY  
A Nationally Accredited Laboratory

700 NORTH 5TH STREET  
RICHMOND, VIRGINIA 23219  
(804) 786-6971

### CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II  
SERIAL NUMBER: 010464  
CERTIFICATION DATE: January 7, 2014  
DATE RECERTIFICATION DUE: July 6, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

#### Estimation of Uncertainty of Measurement:

$0.020 \pm 0.004$ g/210 L	$0.150 \pm 0.007$ g/210 L
$0.080 \pm 0.004$ g/210 L	$0.250 \pm 0.007$ g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of  $k=3$ . The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

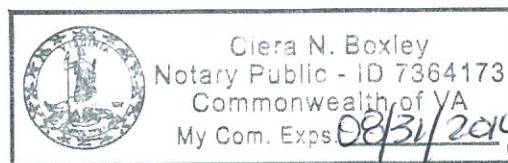
Sarah E. Dersch  
Forensic Scientist

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 29<sup>th</sup> day of January, 2014 by Sarah E. Dersch

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



Department of Forensic Science  
Breath Alcohol Section  
Instrument Location History  
1/1/1990 To 1/9/2014

DBH  
SL

Instrument Serial Number: 010464

As of 09-Jan-14

Start Date	End Date	Agency Name
07-Jan-14		Franklin County SO
28-Dec-12	07-Jan-14	DFS Central Lab
14-Dec-11	28-Dec-12	Fairfax County PD
13-Oct-11	14-Dec-11	DFS Central Lab
20-Sep-10	13-Oct-11	Loudoun County SO
05-Aug-09	20-Sep-10	DFS Central Lab
17-Oct-08	05-Aug-09	Amelia County SO
08-May-08	17-Oct-08	DFS Central Lab

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**Department of Forensic Science  
Breath Alcohol Section  
Instrument Maintenance History  
1/1/1990 To 1/23/2014**

<b>Instrument Serial Number:</b> 010464	<b>As of 23-Jan-14</b>
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Maintenance Date	Certification Date	Technician Initials	Remarks
07-Jan-14	07-Jan-14	DBH (21250)	CERTIFIED.
26-Sep-13	26-Sep-13	MMB (26417)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.
27-Nov-12	27-Nov-12	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED, REPLACED DRY GAS STANDARD.
26-Oct-12	05-Jun-12	HMS (18910)	REPLACED DRY GAS STANDARD.
27-Aug-12	05-Jun-12	HMS (18910)	REPLACED DRY GAS STANDARD.
05-Jun-12	05-Jun-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
15-Mar-12	14-Dec-11	HMS (18910)	REPLACED DRY GAS STANDARD.
14-Dec-11	14-Dec-11	HMS (18910)	CERTIFIED
04-May-11	04-May-11	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
22-Nov-10	22-Nov-10	HMS (18910)	CERTIFIED
20-Sep-10	20-Sep-10	HMS (18910)	CALIBRATED AND CERTIFIED.
11-Sep-09	11-Sep-09	DBH (21250)	REPLACED TANK TOP LID, CERTIFIED.
10-Mar-09	10-Mar-09	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
17-Oct-08	17-Oct-08	DBH (21250)	CERTIFIED.
02-Oct-08	02-Oct-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

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## INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010464 Worksheet Start Date 1/7/2014  
Location Franklin CO SO  
Address 70 E Court St Rocky Mount VA 24151  
DFS Technician Donald Hall License No. 21250  
☐ Laboratory ☒ On-Site

Site Specification: No detrimental environmental conditions exist. ☒

Instrument Barometer (mm HG) 741 Reference Barometer (mm HG) 737  
Reference Barometer(RB)Serial # 009109 RB Calibration Due 8/1/2014

### Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1
0.300	0.293	0.284	0.301	0.296
Precision		sample min	sample max	Sample 2
0.002		0.294	0.296	0.294

Standard (sea level)	PA Target	minimum	maximum	Sample 1
0.100	0.098	0.095	0.101	0.097
Precision		sample min	sample max	Sample 2
0		0.097	0.097	0.097

Dry gas standard Lot No. (with tank no.)

AG332301-27

☒ DBH 1/23/14  
☒ Replaced dry gas standard (+O-ring)

☒ Installed at Location

☐ Removed to DFS-Central

Supplies  
Mouthpieces  
Certificates of Analysis  
Operator Worksheet  
Other:

50

50

Notes:

Instrument Serial Number

010464

Certification Date

1/7/2014

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1
0.250	0.244	0.236	0.251	0.244
Precision		sample min	sample max	Sample 2
0.002		0.242	0.244	0.242

Standard (sea level)	PA Target	minimum	maximum	Sample 1
0.150	0.146	0.141	0.150	0.146
Precision		sample min	sample max	Sample 2
0		0.146	0.146	0.146

Standard (sea level)	PA Target	minimum	maximum	Sample 1
0.080	0.078	0.075	0.081	0.078
Precision		sample min	sample max	Sample 2
0		0.078	0.078	0.078

Standard (sea level)	PA Target	minimum	maximum	Sample 1
0.020	0.020	0.017	0.023	0.019
Precision		sample min	sample max	Sample 2
0		0.019	0.019	0.019

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

*Donald B Hall*

Date

*1/23/14*  
*1/9/14*

Issuing Analyst

*Jed*  
*msk*

Date

*1/21/14*  
*1/21/14*



**Intox EC/IR-II: Certification**

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*Department of Forensic Science*

Serial Number: 010464      Test Number: 1189  
Test Date: 01/07/2014      Test Time: 13:31 EST

Technician Initials: DBH

Dry Gas Target: 0.244

Lot Number: 2961225012-09      Exp Date: 11/01/2014

Tank Pressure: 664 psi      Barometric Pressure: 741 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:32
BLK	0.000	13:32
CHK	0.244	13:33
BLK	0.000	13:34
CHK	0.242	13:35
BLK	0.000	13:36
CHK	0.242	13:37
BLK	0.000	13:38

**Success**

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

**Intox EC/IR-11: Certification**

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*Department of Forensic Science*

Serial Number: 010464      Test Number: 1190  
Test Date: 01/07/2014      Test Time: 13:41 EST

Technician Initials: DBH

Dry Gas Target: 0.146

Lot Number: 2951215012-03      Exp Date: 11/01/2014

Tank Pressure: 291 psi      Barometric Pressure: 741 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:42
BLK	0.000	13:42
CHK	0.146	13:43
BLK	0.000	13:44
CHK	0.146	13:45
BLK	0.000	13:46
CHK	0.146	13:47
BLK	0.000	13:48

**Success**

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010464      Test Number: 1191  
Test Date: 01/07/2014      Test Time: 13:51 EST

Technician Initials: DBH

Dry Gas Target: 0.078

Lot Number: 0771308012-01      Exp Date: 05/01/2015

Tank Pressure: 879 psi      Barometric Pressure: 741 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:51
BLK	0.000	13:52
CHK	0.078	13:52
BLK	0.000	13:54
CHK	0.078	13:54
BLK	0.000	13:56
CHK	0.078	13:56
BLK	0.000	13:57

**Success**

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued



**Intox EC/IR-11: Certification**

*Department of Forensic Science*

Serial Number: 010464      Test Number: 1192  
Test Date: 01/07/2014      Test Time: 14:00 EST

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 0771302011-02      Exp Date: 05/01/2015

Tank Pressure: 757 psi      Barometric Pressure: 741 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:00
BLK	0.000	14:01
CHK	0.019	14:02
BLK	0.000	14:03
CHK	0.019	14:03
BLK	0.000	14:05
CHK	0.019	14:05
BLK	0.000	14:06

**Success**

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

**Intox EC/IR-11: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010464      Test Number: 1193

Test Date: 01/07/2014      Test Time: 14:09 EST

Dry Gas Target: 0.293

Lot Number: AG322702-07      Exp Date: 08/15/2015

Tank Pressure: 227 psi      Barometric Pressure: 741 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:10
CHK	0.296	14:11
BLK	0.000	14:12
CHK	0.294	14:13
BLK	0.000	14:14
CHK	0.294	14:15

Test Status: *Success*

Calibration CRC: 3215204A

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Intox EC/IR-11: Accuracy Check

SBH  
SID

*Department of Forensic Science*

Serial Number: 010464      Test Number: 1194

Test Date: 01/07/2014      Test Time: 14:19 EST

Dry Gas Target: 0.098

Lot Number: AG332301-27      Exp Date: 11/19/2015

Tank Pressure: 1120 psi      Barometric Pressure: 741 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:20
CHK	0.097	14:20
BLK	0.000	14:22
CHK	0.097	14:22
BLK	0.000	14:24
CHK	0.097	14:24

Test Status: *Success*

Calibration CRC: 3215204A

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COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED <b>INSTRUMENT, TEST,</b>	NAME OF COURT <b>DFS</b>
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY <b>HALL, DONALD, B</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>21250</b>	LICENSE EXPIRES <b>10/01/2014</b>	DATE TEST CONDUCTED <b>01/07/2014</b>
TEST EQUIPMENT NUMBER <b>010464</b>		

RESULTS: TIME SAMPLE TAKEN 14:33 EST  
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_ OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 09 Jan 2014 at 10:16

JBH

SLD

## Test Results

Instrument Serial Number 010464

Test # 001195 Subject Test

Test Location 1 Department of  
Test Date 07 Jan 2014

Test Location 2 Forensic Science  
Test Time 14:27  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name HALL  
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B  
License Number 21250

Card Serial Number 121250

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 07 Jan 2014 End Time 14:34

Result Time 14:33

Result Date 07 Jan 2014

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 14:27

Data Type BLK

Sample Value 0.000

Sample Time 14:28

Data Type CHK

Sample Value 0.097

Sample Time 14:28

Data Type BLK

Sample Value 0.000

Sample Time 14:30

Data Type SUBJ

Sample Value 0.000

Sample Time 14:30

Data Type BLK

Sample Value 0.000

Sample Time 14:31

Data Type SUBJ

Sample Value 0.000

Sample Time 14:33

Data Type BLK

Sample Value 0.000

Sample Time 14:34

Standard Type Dry Gas Std

Standard Value 0.098

Standard Lot Number AG332301-27

Standard Expiration Date 11/19/2015

Tank Pressure 1120

Barometric Pressure 741 mmHg

Blow Sample Number 1 Blow Duration 3.74 sec

Blow Volume 1989 cc End-of-Blow Time 14:30

Blow Sample Number 2 Blow Duration 3.45 sec

Blow Volume 1786 cc End-of-Blow Time 14:33

Tamper Evident Stamp 7eb802a9

Test Status Code 0

Test Status Success